

CELL CULTURE MATERIAL, ITS PRODUCTION AND CULTIVATION METHOD

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Inventor(s): AOKI TAKASHI, others: 06
Applicant(s): NIPPON OIL & FATS CO LTD
Requested Patent: ☐

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IPC Classification: C12M3/00 ; C12N5/06 ; C12N11/08

EC Classification:

Equivalents:

Abstract

PURPOSE: To obtain a cell culture vessel, etc., having excellent cell adhesion and culture proliferation properties and causing little cell damage in the peeling of cells by using a copolymer of a vinyl monomer having phenylboronic acid group and a vinyl monomer having amino group as the cell culture material.

CONSTITUTION: A monomer composition containing a vinyl monomer having phenylboronic acid group and a vinyl monomer having amino group is polymerized and the obtained copolymer is used as the cell culture material. The material is free from cytotoxicity, effective for growing and proliferating cultured cell under physiological condition, promoting the tissue formation from aggregated cells through spheroid to a network and inducing the expression of function and enables easy desorption and peeling of the cell.

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JP6339367 Biblio

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(54)【発明の名称】 細胞培養材料、製造および培養方法

(57)【要約】

【目的】 培養細胞の接着性が良好であり、細胞毒性がない上、生理的条件下で接着細胞が伸展、増殖し、細胞凝集塊、スフェロイド、ネットワークへと組織形成を促進するとともに、機能発現を誘発することができ、しかも脱着、剥離が容易で、それに伴う細胞の構造、機能変化を抑制することができる細胞培養材料および培養方法を得る。

【構成】 (A) フェニルポロン酸基含有ビニルモノマーと、(B) アミノ基含有ビニルモノマーと、必要により (C) これらと共重合可能な水溶性ビニルモノマーとを含むモノマー組成物の共重合体からなる細胞培養材料を用いて細胞培養を行う。